

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v208)**

1. Expand the following expression into standard form.

$$(9x + 8)^2$$

2. Expand the following expression into standard form.

$$(8x - 9)(8x + 9)$$

3. Expand the following expression into standard form.

$$(3x - 5)(9x - 8)$$

4. Solve the equation.

$$(9x - 5)(4x + 7) = 0$$

5. Factor the expression.

$$x^2 + 4x - 32$$

6. Factor the expression.

$$16x^2 - 49$$

7. Solve the equation with factoring by grouping.

$$8x^2 + 20x - 6x - 15 = 0$$

8. Solve the equation.

$$6x^2 + 28x - 14 = 3x^2 + 2x - 5$$